

What is Claimed Is:

1. A vacuum suction system, comprising
a vacuum leak generation part,
a vacuum generation mechanism connected to the vacuum leak generation part, and
a vacuum level adjustment mechanism connected to the vacuum generation mechanism to adjust a vacuum level of the vacuum leak generation part.
2. The vacuum suction system according to claim 1, wherein
the vacuum leak generation part includes a conveyor table having a work receiving opening for receiving a work.
3. The vacuum suction system according to claim 2, wherein
the vacuum leak generation part includes a table base disposed on the side of the vacuum generation mechanism of the conveyor table, with a vacuum suction channel to connect with the work receiving opening.
4. The vacuum suction system according to claim 3, wherein
a minute sectional suction channel is located between the vacuum suction channel and the work receiving opening on the side of the table base of the conveyor table.
5. The vacuum suction system according to claim 1, wherein
the vacuum level adjustment mechanism includes a negative pressure sensor to detect the vacuum level of the vacuum leak generation part, a compressed air generation source for generating a compressed air, and an adjustment part to jet out the compressed air from

the compressed air generation source to the vacuum leak generation part based on a signal from the negative pressure sensor.

6. The vacuum suction system according to claim 5, wherein

the adjustment part jets out the compressed air based on the signal from the negative pressure sensor when the vacuum level rises above a maximum level, and stops the compressed air when the vacuum level falls below a minimum level.

7. A method of controlling a vacuum suction system, comprising

a vacuum leak generation part,

a vacuum generation mechanism connected to the vacuum leak generation part, and

a vacuum level adjustment mechanism connected to the vacuum generation mechanism for adjusting a vacuum level of the vacuum leakage generation part, and including a negative pressure sensor to detect the vacuum level of the vacuum leak generation part, a compressed air generation source, and an adjustment part,

the method comprising the steps of:

generating a vacuum in the vacuum leakage generation part by the vacuum generation mechanism,

detecting the vacuum level of the vacuum leakage generation part by the negative pressure sensor of the vacuum level adjustment mechanism, and

jetting out a compressed air from the compressed air generation source to the vacuum leak generation part by the adjustment part of the vacuum level adjustment mechanism based on a signal from the negative pressure sensor.

8. A method of controlling the vacuum suction system

according to the method of claim 7, wherein

the adjustment part jets out the compressed air based on the signal from the negative pressure sensor when the vacuum level rises above a maximum level, and stops the compressed air when the vacuum level falls below a minimum level.

9. A method of controlling a vacuum suction system according to the method of claim 8, wherein,

the adjustment part jets out the compressed air intermittently based on the signal from the negative pressure sensor when the vacuum level rises above the maximum level.